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EXAMINER ISABELLA, DAVID J ART UNIT PAPER NUMBER 3738
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
		MEDLIN, DANA J.	
Office Action Summary	Examiner	Art Unit	
	DAVID LISABELLA	3738	
The MAILING DATE of this communication a	ppears on the cover sheet wit	h the correspondence add	iress
so that for Donly			
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	1.136(a). In no event, however, may a re eply within the statutory minimum of thirty od will apply and will expire SIX (6) MON'	ply be timely filed (30) days will be considered timely (HS from the mailing date of this co	r. mmunication.
Status			,
1) Responsive to communication(s) filed on 1) <u>November 2003</u> .		
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2a)☐ This action is FINAL . 20)☐ 1 3)☐ Since this application is in condition for allo closed in accordance with the practice und	wance except for formal matt er <i>Ex part</i> e Quayle, 1935 C.D	ers, prosecution as to the . 11, 453 O.G. 213.	e ments is
Disposition of Claims			
4)\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	tion. drawn from consideration.		
4a) Of the above claim(s) is/are with	ulawii nom oones		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-20</u> is/are rejected.			
7) Claim(s) is/are objected to.	ad/or election requirement.		
8) Claim(s) are subject to restriction a	Id/Of election rodal of the		
Application Papers			
9)☐ The specification is objected to by the Exa	miner.	by the Everniner	
- ic/ara: a)	accepted of Dil Toblected it) by the Examinor.	
			CFR 1 121(d).
I	recotion is redilited if the utawii	Q(3) 13 0D) 0010 a 111	PTO-152
Replacement drawing sheet(s) including the country and the country and the country are considered to by the country are considered to by the country are considered to by the country are considered to be conside	ne Examiner. Note the attach	ed Office Action of Torrit	10 102.
Drianity under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for	reign priority under 35 U.S.C	§ 119(a)-(d) or (t).	
None of:			
- us I series of the priority doci	ments have been received.		
1	monte have been received iii	Application No	1.01
- su deside a price of the	e priority documents have be	en received in this Natior	iai Stage
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* See the attached detailed Office action for	a list of the certified copies n	ot received.	
* See the attached detailed Office detailed			
Attachment(s)	. .	w Summary (PTO-413)	
Data of Datarances Cited (PTO-892)	, — Paner I	امره)/Mail Date.	. =
Notice of References office (1.15 cm) Notice of Draftsperson's Patent Drawing Review (PTO-5) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date	48)	of Informal Patent Application (PTO-152)
	ffice Action Summary	Part of Paper No./M	ail Date 20040612

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Williams et al in view of Sioshansi et al (5123924) Noiles (3848272) and Lower (4573458).

Williams et al discloses a medical implant consisting essentially of a material selected from the group consisting of cobalt chrome alloy and austenitic stainless steel alloy, such that the implant comprises a core and surface layer, wherein the surface layer is hardened by the process of activating the surface by applying a layer of iron thereto, and thereauer carburizing the surface at a temperature and for a time insufficient for carbides to form on the surface layer. (Note Williams et al provides for hardening bearing structures.) While Williams et al is not specific to the particulars of the medical implants, each of Sioshansi, et al, Noiles and Lower teaches the use of cobalt chromium and/or stainless steel 316 in the manufacture of medical implants including orthopedic implant component selected from the group of an acetabular cup, a femoral head, a femoral stem, a glenoid cup, a humeral head, a humeral stem, a distal femoral condylar implant, a proximal tibial implant, and a fixation plate. Moreover, Shioshansi, et al teaches the benefits for hardening the bearing surfaces of the implant to reduce wear and improve tribiologic function of the implant. If not inherent in Williams

et al, examiner contends that it would have been obvious to one with ordinary skill in the art to fabricate the medical implants of Williams et al in the form of an orthopeadic device including an acetabular cup, a femoral head, a femoral stem, a glenoid cup, a humeral head, a humeral stem, a distal femoral condylar implant, a proximal tibial implant, and a fixation plate.

Claim 1 is directed to an implant formed from a material of either cobalt chrome or austenitic stainless steel. Implant formed of these materials are clearly disclosed by Williams et al, Sioshansi et al, Noiles and Lower.

Claim 2 is directed to an implant formed from a material of stainless steel.

Implant formed of these materials are clearly disclosed by Williams et al, Sioshansi et al, Noiles and Lower.

Claim 3 is directed to a joint implant formed from a material of cobalt. Implant formed of these materials are clearly disclosed by Williams et al, Sioshansi et al, Noiles and Lower. Joint components is taught by Sioshansi, et al and Noiles.

Claim 4 is directed to a joint implant wherein the cooperating bearing surfaces are formed from a material of cobalt. Implant formed of these materials are clearly disclosed by Williams et al, Sioshansi et al, Noiles and Lower. The cooperationg joint components formed of cobalt is taught by Noiles.

Claims 5-8, the particulars of the components are taught by Sioshansi, et al and Noiles.

Claims 9 and 10 are directed to an implant formed from a material of either cobalt chrome or austenitic stainless steel. Implant formed of these materials are clearly disclosed by Williams et al, Sioshansi et al, Noiles and Lower.

Claim 11 is directed to a joint implant formed from a material of cobalt. Implant formed of these materials are clearly disclosed by Williams et al, Sioshansi et al, Noiles and Lower. Joint components is taught by Sioshansi, et al and Noiles.

Claim 12 is directed to a joint implant wherein the cooperating bearing surfaces are formed from a material of cobalt. Implant formed of these materials are clearly disclosed by Williams et al, Sioshansi et al, Noiles and Lower. The cooperationg joint components formed of cobalt is taught by Noiles.

Claims 13-16, the particulars of the components are taught by Sioshansi, et al and Noiles

Claims 17-20, the particulars of the component are taught by Lower.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DAVID J ISABELLA whose telephone number is 703-308-3060. The examiner can normally be reached on MONDAY-FRIDAY.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CORRINE MCDERMOTT can be reached on 703-308-2111. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DAVID J ISABELLA Primery Examiner Art Unit 3738

DJI JUNE 12, 2004